

Ali Zia

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SKILLS

Languages: Python, Java, JavaScript, C/C++, R, Matlab, HTML/CSS

Frameworks/Libraries: React, Node.js, Express, Pandas, NumPy, Scikit-learn, Streamlit, Beautiful Soup, Socket.IO

Tools: Git, Bash, Linux, MySQL, Firebase, JUnit, PlantUML, VS code, IntelliJ, PyCharm, Jupyter Notebook, Excel

EDUCATION

McMaster University | Bachelor of Software Engineering Co-Op (GPA: 3.8/4.0) **2021 – 2025 (Expected)**

- **Relevant Courses:** Object-Oriented Programming, Data Structures & Algorithms, Software Development

PROJECTS

Island Generation

- Worked in a team of **3** to develop a **Java** application that generates meshes based on user-defined parameters
- Expanded the functionality of the application to enrich the generated meshes into island landscapes
- Individually Integrated a custom graph library to construct a star network to connect cities with roads
- Implemented comprehensive testing coverage for **60%** of the codebase using **JUnit**

Premier League (Soccer) Win Predictor

- Processed and feature engineered hundreds of Premier League games data with **Pandas**
- Extracted historical performance, home and away records and shooting statistics for better predictive accuracy
- Developed a robust preprocessing pipeline to clean, transform and normalize raw data
- Employed a classification model with **SciKit-Learn** to predict the winner of any game, achieving **70%** accuracy

Vacation-Valet

- Developed a Travel Advisory application that collects and organizes restaurant, attraction, and hotel data
- Used **React** and **Material-UI** to provide a user-friendly and visually appealing interface
- Implemented a data filtering feature, enabling users to refine search results based on ratings
- Utilized several **APIs** to deliver reliable information about travel destinations with photos, ratings, and reviews

WORK EXPERIENCE

Event Coordinator

September 2019 – January 2023

Sheridan Community Services

Mississauga, ON

- Orchestrated planning and execution of multiple large-scale events, achieving a **95%** attendee satisfaction rate
- Successfully managed event logistics accommodating **100** attendees and ensuring a **98%** on-time start rate
- Increased event attendance by **25%** through effective promotion and marketing strategies

Repair Technician

May 2022 – August 2022

Rama Centre

Mississauga, ON

- Managed **10+** repairs daily and achieved a **100%** satisfaction rate in repair efficiency and on-time completion
- Implemented rigorous diagnostic procedures, resulting in a **20%** reduction in device rework
- Meticulously documented repair and troubleshooting procedures, increasing future repair efficiency by **38%**

EXTRA-CURRICULARS

RBC Future Launch Contestant - Innovation Challenge Winner

May 2023

- Worked in a team of **4** to develop and deliver a proposal for an RBC workshop, winning amongst 12 teams

Software Design Team Lead - DeltaHack 9

January 2023

- Led a team of **3** to develop a full-stack application with **React** and **Firebase**, allowing users to chat online